

# FIGURE 1

ccccgagg cagtgcat gaggctcagg gcgtgcgt gagtcgcagcgagaccccg gggtgcag gccgga

# FIGURE 3

readed to the standard of the	ccgtg agcg	g geetgeegee atgggeeege geegeegeeg eegeetgte	aaaag*tggccgggac tttgcaggca gcggcggccg ggggcggagc	cagccaat tgtggcggcg ctcggcggct cgtggctctt tcgcggcaaa	gccgggtcc ggcgcgttaa agccaatagg aaccgccgcc gttgttccc	gcccgc cccgccattg gccgtaccgc cccgcgccgc cgccccatc	ccgggc tggggggggg gagtcagacc gcgcctggta ccatccggac	ggagcgt cggggcgggg cggggcctat gttcccgtgt ccccacgcc	gtcacgtg cagaagagag gctctgttct gaacctgcac tatagaaag	aagaagag gggacagtct ctggaaatct aagctgaggc tgttggggg	aggcaagt tgaggatgga agaggtggct gatggctggg ctgtggaact	gcttgggc tctgggtgag cgggataggg ctgggtgcag gattaggata	aaaatggg acttgcagga aagcccgacg tccccctcgc catttccagg	gagtgagg gaatgaatga gttcaagcag atgctatacg ttggctgttg	cttagg gccacgaatt gaggatgggg cacagagcaa gctctccaaa	acttcatc gtattgtaaa cgtctgttac ctttctgttc ccctgtcta	ccac cccgccagct gattacaggg attccggtgg tgagccaccg	ttttgtag agatgggtct tcaccatgtt gatcaggctg gtctcgaact	agcctccc aagtagctgg gactacgggc acacgccacc atgcctggct	ggcatga tcatagctca ctgcagcctc gacttctcgg gctcaagcaa	ttttc tttttttgtt ttagagacag gatctcgctc tgtcgcccag	ggcagca gtgggcaata gaggaagtga gtaaatcctt gggagggctc	tcctagatt ggcaggggag gcagatggag aaaaggagtg tgtgtggtca	ataacettt eteágegeet getetgggee agaceagtgt tgggaggagt	agaaccgt ggtctccttg tcacagtcta ggcagcctct ggcttagcct	ggcccaaaa ttagcaagtg accacgtggt tctgaagcca gtggcctaag
		cccgggccgc	gggatcgagc	ggattg	acggc	gcccctc	agcctg	cagg	ω	gttg	atgateet	atgg	accgctct	Ettg	cgtttgttga	gtg	gcccagac	gata	ttttgt	cctcccac	tggtgtg	ctagaagt	attgg	ctactga	gtttett	accaccct

# FIGURE 4A

aagcttctag	ttttctttc	ccggtgacat	cgtggaaagc	actagcatct	ctaagcaatg	60
atctgtgaca	atattcacag	tgtaatgcca	tccagggaac	tcaactgagc	cttgatgtcc	120
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ggtgcaacct	tggctcactg	caagctccgc	ctcctgggtt	cacgccattc	tcctgcctca	240
gcctcctgag	tagctgggac	tacaggcacc	cgccaccacg	cctggctaat	ttttttgtat	300
ttttagtaga	gatggggttt	cactgtgtta	gccaggatgg	tctcagtctc	ctgacctcgt	360
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ggtgaccaga	gcagtctagg	tggåtgctgt	gcagaagggg	tttgtgccac	: tggtgagaaa	1560
cctgagatta	ggaatcctca	atcttatact	gggacaactt	gcaaacctgc	c tcagcctttg	1620
tctctgatga	agatattato	: ttcatgatct	tggattgaaa	acagacctac	tctggaggaa	1680

#### FIGURE 4B

catattgtat cgattgtcct tgacagtaaa caaatctgtt gtaagagaca ttatctttat 1740 tatctaggac agtaagcaag cctggatctg agagagatat catcttgcaa ggatgcctgc 1800 tttacaaaca tccttgaaac aacaatccag aaaaaaaaag gtgttgctgt ctttgctcag 1860 aagacacaca gatacgtgac agaaccatgg agaattgcct cccaacgctg ttcagccaga 1920 geettecace ettgtetgea ggacagtete aaegttecae eattaaatae ttettetate 1980 acatectget tetttatgee taaccaaggt tetaggteee gategactgt gtetggeage 2040 actccactgc caaacccaga ataaggcagc gctcaggatc ccgaaggggc atggctgggg 2100 atcagaactt ctgggtttga gtgaggagtg ggtccaccct cttgaatttc aaaggaggaa 2160 gaggetggat gtgaaggtac tgggggaggg aaagtgteag tteegaacte ttaggteaat 2220 gagggaggag actggtaagg tcccagctcc cgaggtactg atgtgggaat ggcctaagaa 2280 tctcatatcc tcaggaagaa ggtgctggaa tcctgagggg tagagttctg ggtatatttg 2340 tggcttaagg ctctttggcc cctgaaggca gaggctggaa ccattaggtc cagggtttgg 2400 ggtgatagta atgggatete ttgatteete aagagtetga ggategaggg ttgeecatte 2460 ttccatcttg ccacctaatc cttactccac ttgagggtat caccagccct tctagctcca 2520 tgaaggtccc ctgggcaagc acaatctgag catgaaagat gccccagagg ccttgggtgt 2580 catccactca tcatccagca tcacactctg agggtgtggc cagcaccatg acgtcatgtt 2640 getgtgacta tecetgeage gtgeetetee agecacetge caacegtaga getgeecate 2700 ctcctctggt gggagtggcc tgcatggtgc caggctgagg cctagtgtca gacagggagc 2760 ctggaatcat agggatccag gactcaaaag tgctagagaa tggccatatg tcaccatcca 2820 tgaaatetea agggettetg ggtggaggge acagggaeet gaaettatgg ttteecaagt 2880 ctattgctct cccaagtgag tctcccagat acgaggcact gtgccagcat cagccttatc 2940 tocaccacat ottgtaaaag gactacccag ggcootgatg aacaccatgg tgtgtacagg 3000 agtagggggt ggaggcacgg actcctgtga ggtcacagcc aagggagcat catcatgggt 3060 ggggaggagg caatggacag gcttgagaac ggggatgtgg ttgtatttgg ttttctttgg 3120 ttagataaag tgctgggtat aggattgaga gtggagtatg aagaccagtt aggatggagg 3180 atcagattgg agttgggtta gataaagtgc tgggtatagg attgagagtg gagtatgaag 3240 accagttagg atggaggatc agattggagt tgggttagag atggggtaaa attgtgctcc 3300 ggatgagttt gggattgaca ctgtggaggt ggtttgggat ggcatggctt tgggatggaa 3360

#### FIGURE 4C

atagatttgt tttgatgttg gctcagacat ccttggggat tgaactgggg atgaagctgg 3420 gtttgatttt ggaggtagaa gacgtggaag tagctgtcag atttgacagt ggccatgagt 3480 tttgtttgat ggggaatcaa acaatggggg aagacataag ggttggcttg ttaggttaag 3540 ttgcgttggg ttgatggggt cggggctgtg tataatgcag ttggattggt ttgtattaaa 3600 ttgggttggg tcaggttttg gttgaggatg agttgaggat atgcttgggg acaccggatc 3660 catgaggttc tcactggagt ggagacaaac ttcctttcca ggatgaatcc agggaagcct 3720 taattcacgt gtaggggagg tcaggccact ggctaagtat atccttccac tccagctcta 3780 agatggtett aaattgtgat tatetatate eacttetgte teeeteactg tgettggagt 3840 ttacctgatc actcaactag aaacagggga agattttatc aaattctttt ttttttttt 3900 ttttttttga gacagagtct cactctgttg cccaggctgg agtgcagtgg cgcagtctcg 3960 gctcactgca acctctgcct cccaggttca agtgattctc ctgcctcagc ctcctgagtt 4020 gctgggatta caggcatgca gcaccatgcc cagctaattt ttgtattttt agtagagatg 4080 gggtttcacc aatgtttgcc aggctggcct cgaactcctg acctggtgat ccacctgcct 4140 cagectecca aagtgetggg attacaggeg teagecaeeg egeceageca ettttgteaa 4200 attcttgaga cacagctcgg gctggatcaa gtgagctact ctggttttat tgaacagctg 4260 aaataaccaa ctttttggaa attgatgaaa tcttacggag ttaacagtgg aggtaccagg 4320 gctcttaaga gttcccgatt ctcttctgag actacaaatt gtgattttgc atgccacctt 4380 aatctttttt tttttttt taaatcgagg tttcagtctc attctatttc ccaggctgga 4440 gttcaatagc gtgatcacag ctcactgtag ccttgaactc ctggccttaa gagattctcc 4500 tgcttcggtc tcccaatagc taagactaca gtagtccacc accatatcca gataattttt 4560 aaattttttg gggggccggg cacagtggct cacgcctgta atcccaacac catgggaggc 4620 tgagatgggt ggatcacgag gtcaggagtt tgagaccagc ctgaccaaca tggtgaaact 4680 ctgtctctac taaaaaaaaa aaaaatagaa aaattagccg ggcgtggtgg cacacggcac 4740 ctgtaatccc agctactgag gaggctgagg caggagaatc acttgaaccc agaaggcaga 4800 ggttgcaatg agccgagatt gcgccactgc actccagcct gggtgacaga gtgagactct 4860 gtctcaaaaa aaaaaaattt ttttttttt tttgtagaga tggatcttgc tttgtttctc 4920 tggttggcct tgaactcctg gcttcaagtg atcctcctac cttggcctcg gaaagtgttg 4980 ggattacagg cgtgagccac catgactgac ctgtcgttaa tcttgaggta cataaacctg 5040 gctcctaaag gctaaaggct aaatatttgt tggagaaggg gcattggatt ttgcatgagg 5100

# FIGURE 4D

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ccccagcccc	aagctt					5836

# FIGURE 5A

	•						
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	gcaagaagtg	aaggaaccac	ccctgcatca	aatgttttgc	atgggaagga	gaagggggtt	420
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	caggagaatg	ttgacccagg	aaagggaccg	aggacccaag	aaaggagtca	gaccaccagg	1260
	gtttgcctga	gaggaaggat	caaggccccg	agggaaagca	gggctggctg	catgtgcagg	1320
	acactggtgg	ggcatatgtg	tcttagattc	tccctgaatt	cagtgtccct	gccatggcca	1380
	gactctctac	tcaggcctgg	acatgctgaa	ataggacaat	ggccttgtcc	tctctcccca	1440
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	ccagcctgtc	: caggcccttc	cactctccac	: tttgtgacca	tgtccaggac	cacccctcag	1620
	atcctgagcc	: tgcaaatacc	cccttgctgg	gtgggtggat	tcagtaaaca	gtgagctcct	1680

# FIGURE 5B

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# FIGURE 5C

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agaaaagaaa	gtataaaatc	tctttgggtt	aacaaaaaa	gatccacaaa	acaaacacca	4680
gctcttatca	aacttacaca	actctgccag	agaacaggaa	acacaaatac	tcattaactc	4740
acttttgtgg	caataaaacc	ttcatgtcaa	aaggagacca	ggacacaatg	aggaagtaaa	4800
actgcaggcc	ctacttgggt	gcagagaggg	aaaatccaca	aataaaacat	taccagaagg	4860
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#### FIGURE 5D

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# FIGURE 5E

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### FIGURE 5F

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# FIGURE 5G

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# FIGURE 5H

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### FIGURE 5I

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#### FIGURE 6A

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#### FIGURE 6D

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#### FIGURE 6C

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#### FIGURE 6B

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#### FIGURE 6E

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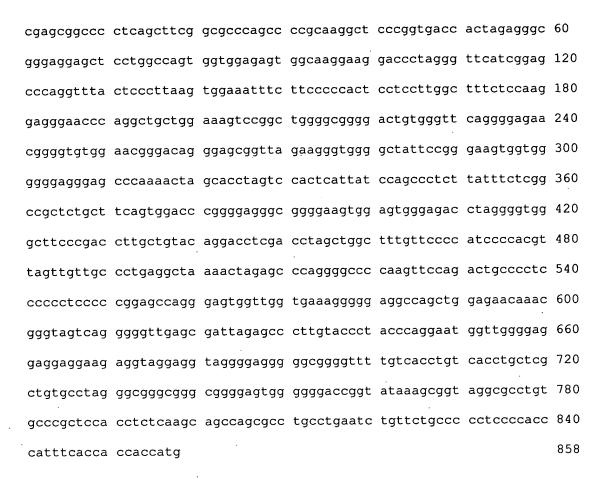
#### . IGURE 6F

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#### FIGURE 6G

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#### FIGURE 8



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#### FIGURE 9

g at Me	ig ac et Th 1	ec go nr Gl	gc to Ly Se	ca ad er Th	ec at nr II 5	ic go le Ai	cg co la Pi	cc ac ro Th	nr Tl	eg ga nr As 10	ac ta sp Ty	at co yr Ai	gc aa rg As	sn Th	cc act nr Thr 15	49
gct Ala	acc Thr	gga Gly	cta Leu 20	aca Thr	tct Ser	gcc Ala	cta Leu	aat Asn 25	tta Leu	ccc Pro	caa Gln	gtt Val	cat His 30	gcc Ala	ttt Phe	97
gtc Val	aat Asn	gac Asp 35	tgg Trp	gcg Ala	agc Ser	ttg Leu	gac Asp 40	atg Met	tgg Trp	tgg Trp	ttt Phe	tcc Ser 45	ata Ile	gcg Ala	ctt Leu	145
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aga Arg 65	cgc Arg	gcc Ala	aga Arg	ccc Pro	ccc Pro 70	atc Ile	tat Tyr	agg Arg	cct Pro	atc Ile 75	att Ile	gtg Val	ctc Leu	aac Asn	cca Pro 80	241
cac His	aat Asn	gaa Glu	aaa Lys	att Ile 85	cat. His	aga Arg	ttg Leu	gac Asp	ggt Gly 90	ctg Leu	aaa Lys	cca Pro	tgt Cys	tct Ser 95	ctt Leu	289
ctt Leu	tta Leu	cag Gln	tat Tyr 100	gat Asp	taa											307